## IN THE CLAIMS:

1. (currently amended) A method for reconstructing an image of an object in a computed tomographic imaging system, said method comprising:

scanning an object using a computed tomographic (CT) imaging apparatus to acquire projections of the object;

determining a set of thresholds utilizing said the projections;

associating selected smoothing kernels with said the thresholds;

utilizing-said, via the computed tomographic imaging system, the smoothing kernels and said-the projections to produce three-dimensional smoothed projections in accordance with said-the thresholds; and

filtering and backprojecting the three-dimensional smoothed projections to generate an image of the object in the computed tomographic imaging system.

- 2. (currently amended) A method in accordance with Claim 1 wherein said determining a set of thresholds comprises determining a set of four thresholds comprising including a high threshold, a medium threshold, a low threshold, and a very low threshold, and wherein a one of the smoothing kernel is associated with each said threshold of the thresholds.
- 3. (currently amended) A method in accordance with Claim 2 wherein a one-to-one correspondence exists between said-the smoothing kernels and said-the thresholds.
  - 4. (canceled)
- 5. (currently amended) A method in accordance with Claim 1 wherein said utilizing the smoothing kernels and said the projections to produce smoothed projections comprises utilizing a smoothing gain factor to modulate smoothing of said the smoothed projections.
- 6. (currently amended) A method in accordance with Claim 5 wherein said-the smoothing gain factor is a function of said-the projections.

7.–14. (canceled)

15. (currently amended) A CT imaging apparatus comprising:

## a detector;

- a source configured to project a beam of x-rays toward said detector; and
- a computer system operatively coupled to at least one of said detector and said source, said computer system comprising:
  - a first module configured to scan an object to acquire projections of the object;
- a second module configured to determine a set of thresholds utilizing said the projections;
- a third module configured to associate selected smoothing kernels with said the thresholds;
- a fourth module configured to utilize <u>said—the</u> smoothing kernels and <u>said—the</u> projections to produce three-dimensional smoothed projections in accordance with <u>said—the</u> thresholds; and
- a fifth module configured to filter and backproject the three-dimensional smoothed projections to generate an image of the object.
- 16. (currently amended) An apparatus in accordance with Claim 15 wherein, to determine a-the set of thresholds, said second module is configured to determine a set of four thresholds comprising including a high threshold, a medium threshold, a low threshold, and a very low threshold[[,]] and to associate a-one of the smoothing kernel-kernels with each-said threshold of the thresholds.
- 17. (currently amended) An apparatus in accordance with Claim 16 wherein said the smoothing kernels and said-the thresholds exist in one-to-one correspondence.
  - 18. (canceled)
- 19. (currently amended) An apparatus in accordance with Claim 15 wherein, to utilize the smoothing kernels and said the projections to produce the three-dimensional

smoothed projections, said fourth module is configured to utilize a smoothing gain factor to modulate smoothing of said-the smoothed projections.

20. (currently amended) An apparatus in accordance with Claim 19 wherein said the smoothing gain factor is a function of said-the projections.

## 21.-28. (canceled)

29. (currently amended) A computer readable computer storage medium having comprising instructions thereon, said instructions configured to instruct a computer to:

determine a set of thresholds utilizing projections obtained by scanning an object; associate selected smoothing kernels with said-the thresholds;

utilize <u>the</u> smoothing kernels and <u>said-the</u> projections to produce three-dimensional smoothed projections in accordance with <u>said-the</u> thresholds; and

filter and backproject the three-dimensional smoothed projections to generate an image of the object.

- 30. (currently amended) A computer-readable computer storage medium in accordance with Claim 29 wherein, to determine a the set of thresholds, said computer-readable medium is instructions are further configured to instruct the computer to determine a set of four thresholds comprising including a high threshold, a medium threshold, a low threshold, and a very low threshold[[,]] and to associate a one of the smoothing kernel kernels with each-said threshold of the thresholds.
- 31. (currently amended) A computer-readable computer storage medium in accordance with Claim 30 wherein said-the smoothing kernels and said-the thresholds exist in one-to-one correspondence.
  - 32. (canceled)
- 33. (currently amended) A computer-readable computer storage medium in accordance with Claim 29 wherein, to utilize the smoothing kernels and said the projections to produce the three-dimensional smoothed projections, said machine readable medium is

<u>instructions</u> are <u>further</u> configured to instruct the computer to utilize a smoothing gain factor to modulate smoothing of <u>said-the</u> smoothed projections.

34. (currently amended) A <u>computer-readable computer storage medium in</u> accordance with Claim 33 wherein <u>said-the</u> smoothing gain factor is a function of <u>said-the</u> projections.

35.-42. (canceled)